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IS : 10670 - 1983

*Indian Standard*  
SPECIFICATION FOR  
VIRGINIA TOBACCO SEEDCAKE AS  
LIVESTOCK FEED INGREDIENT

UDC 665·117·2:636·087·26 [633·71 VIRGINIA]



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INDIAN STANDARDS INSTITUTION  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

**AMENDMENT NO. 1 JULY 1995**  
**TO**  
**IS 10670 : 1983 SPECIFICATION FOR**  
**VIRGINIA TOBACCO SEEDCAKE AS LIVESTOCK**  
**FEED INGREDIENT**

( *Page 5, clause 5.2, line 2* ) — Substitute 'IS 1070 : 1992' for IS : 1070 - 1977' and in the corresponding foot-note, substitute 'Reagent grade water ( *third revision* )' for the existing foot-note.

( FAD 5 )

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Reprography Unit, BIS, New Delhi, India

# *Indian Standard*

## SPECIFICATION FOR VIRGINIA TOBACCO SEEDCAKE AS LIVESTOCK FEED INGREDIENT

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**IS : 10670 - 1983**

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# *Indian Standard*

## SPECIFICATION FOR VIRGINIA TOBACCO SEEDCAKE AS LIVESTOCK FEED INGREDIENT

### 0. FOREWORD

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 30 September 1983, after the draft finalized by the Animal Feeds Sectional Committee, had been approved by the Agricultural and Food Products Division Council.

**0.2** The cake derived from tobacco seed is a feed of high nutritive value. The formulation of this standard was undertaken by the Animal Feeds Sectional Committee in accordance with the programme of the preparation of Indian Standard for the various ingredients used in compounding feed mixtures. At the same time, the need for the speedy formulation of standards for seed cakes was emphasized by the Indian Central Oilseeds Committee and the Directorate of Marketing and Inspection, Government of India. It is expected that this standard will assist in the development of the mixed feeds industry in the country. Inclusion of the aflatoxin limit in the standard did not find favour with the committee at this stage because of the non-availability of a reliable and quick method for its determination. Further, data for fixing a safe limit in the product meant for livestock feed was also not available. However, it was a considered view of the committee for fixing this limit as early as possible.

**0.3** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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### 1. SCOPE

**1.1** This standard prescribes the requirements and the methods of sampling and test for virginia tobacco seedcake, manufactured by expeller or hydraulic pressed process, for use as livestock feed ingredient.

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\*Rules for rounding off numerical values ( *revised* ).



## 2. REQUIREMENTS

**2.1 Description** — The material shall be free from harmful constituents and castor cake or husk or both or *Mahua* cake. It shall be free from rancidity, adulterants, insect or visible fungus infestation, fermented, musty or other objectionable odour. It shall be free from dirt and extraneous matter including iron or other metallic pieces.

**2.2** The material shall also conform to the requirements prescribed in Table 1.

**TABLE 1 REQUIREMENTS FOR VIRGINIA TOBACCO  
SEEDCAKE AS LIVESTOCK FEED INGREDIENT**

SL No	CHARACTERISTIC	REQUIRE- MENT	METHOD OF TEST, REF TO
			CI No. of IS:7874 (Part I)-1975*
(1)	(2)	(3)	(4)
i)	Moisture, percent by mass, <i>Max</i>	8.0	4
ii)	Crude protein ( $N \times 6.25$ ), percent by mass, <i>Min</i>	32.0	5
iii)	Crude fat or ether extract, percent by mass, <i>Min</i>	9.0	7
iv)	Crude fibre, percent by mass, <i>Max</i>	22.0	8
v)	Acid insoluble ash, percent by mass, <i>Max</i>	2.0	10
vi)	Castor husk or cake	Nil	11
vii)	<i>Mahua</i> cake	Nil	12

NOTE — The values specified for requirements (ii) to (v) are on moisture-free basis.

\*Method of tests for animal feeds and feeding stuffs: Part I General methods.

## 3. PACKING AND MARKING

**3.1 Packing** — Unless agreed otherwise between the purchaser and the vendor, the material shall be packed in clean and sound jute bags.

**3.2 Marking** — Each bag shall be indelibly and legibly marked to give the following information:

- a) Name of the material;
- b) Name of the manufacturer;
- c) Batch or code number;
- d) Net mass in kg, when packed; and
- e) Date of packing.

#### 4. SAMPLING

**4.1** Representative samples of the material shall be drawn and conformity of the material in the lot to the requirement of this specification shall be determined according to the method prescribed in Appendix C of IS:2052-1979\*.

#### 5. TESTS

**5.1** Tests shall be carried out as prescribed in col 4 of Table 1.

**5.2 Quality of Reagents** — Unless specified otherwise, pure chemical and distilled water ( *see* IS: 1070-1977†) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

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\*Specification for compounded feed for cattle ( *third revision* ).

†Specification for water for general laboratory use ( *second revision* ).

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